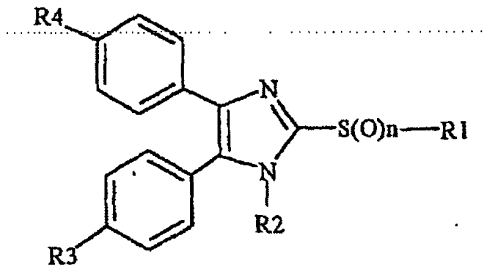
That Which is Claim d:

1. A compound of the formula I



in which

R^1 is selected from:

a) $CONR^5R^6$, in which R^5 and R^6 independently of one another are H or C_1-C_6-alkyl or, together with the nitrogen atom to which they are bonded, form a saturated heterocyclic radical having 5 or 6 ring atoms and one or two heteroatoms which independently of one another are selected from N and O;

b) A-$CONR^5R^6$, in which A is C_1-C_6-alkylene which is optionally substituted by C_1-C_3-alkyl-CO, and R^5 and R^6 independently of one another are H, C_1-C_6-alkyl or phenyl which is optionally substituted by one or 2 halogen atoms;

c) C_1-C_6-alkylene-R^7, where R^7 is NR^5R^6, an aromatic heterocyclic radical having 5 or 6 ring atoms and one or two heteroatoms, which independently of one another are selected from N, S and O, where the heterocyclic radical can optionally be fused to a benzene ring, or is $COOR^8$, R^5 and R^6 independently of one another are H or C_1-C_6-alkyl and R^8 is H or C_1-C_6-alkyl;

d) C_1-C_6-alkylene-CO-R^9, where R^9 is phenyl which is optionally substituted by halogen;

e) C_1-C_6-alkylene-NR^{10}-CO-R^{11}, or

f) C_1-C_6-alkylene-NR^{10}-SO^2-R^{12},

R^{10} is H or C_1-C_6-alkyl,

R^{11} is

- phenyl which is optionally substituted by 1, 2 or 3 substituents, which independently of one another are selected from halogen, CN, NO_2, CF_3, OC_1-C_6-alkyl and C_1-C_6-alkyl,
- naphthyl,
- C_1-C_6-alkyl which is optionally substituted by 1 or 2 phenyl groups,
- C_2-C_6-alkenyl,
- CH=CH-phenyl,
- an aromatic, heterocyclic radical having 5 or 6 ring atoms and 1 or 2 heteroatoms, which independently of one another are selected from N, O or S, or
- NR^5R^6, where R^5 and R^6 independently of one another are H or C_1-C_6-alkyl;

R^{12} is

- phenyl which optionally has 1, 2 or 3 substituents which independently of one another are selected from halogen, NO_2, CF_3, OC_1-C_6-alkyl, C_1-C_6-alkyl, NH_2 and $NHCOC_1$-C_3-alkyl,
- C_1-C_6-alkyl which is optionally substituted by one or two phenyl groups, or
- naphthyl,

R^2 is H, C_1-C_6-alkyl or $(CH_2)_oCOOH$,

R^3 and R^4, which can be identical or different, are H, OH, OC_1-C_6-alkyl, halogen or C_1-C_6-alkyl which is substituted by 1, 2 or 3 halogen atoms, where at least one of the radicals R^3 and R^4 is OH or OC_1-C_6-alkyl,

n is 0, 1 or 2 and

o is 0, 1, 2, 3 or 4,

and the optical isomers and physiologically tolerable salts thereof.

2. A compound as claimed in claim 1, where R^1 is selected from:

a) $CONR^5R^6$, in which R^5 and R^6 independently of one another are H or C_1-C_6-alkyl or, together with the nitrogen atom to which they are bonded, form a saturated heterocyclic radical having 5 or 6 ring atoms and one or two heteroatoms which independently of one another are selected from N and O;

b) A-$CONR^5R^6$, in which A is C_1-C_6-alkylene which is optionally substituted by C_1-C_3-alkyl-CO, and R^5 and R^6 independently of one another are H, C_1-C_6-alkyl or phenyl which is optionally substituted by one or 2 halogen atoms;

c) C_1-C_6-alkylene-CO-R^9, where R^9 is phenyl which is optionally substituted by halogen;

d) C_1-C_6-alkylene-NR^{10}-CO-R^{11};

e) C_1-C_6-alkylene-NR^{10}-SO^2-R^{12},

R^{11} is naphthyl, C_2-C_6-alkenyl, CH=CH-phenyl or an aromatic, heterocyclic radical having 5 ring atoms and 1 or 2 heteroatoms, which independently of one another are selected from N, O or S,

and R^2, R^3, R^4, R^{10} and R^{12} have the meaning as indicated in claim 1.

3. A compound as claimed in claim 1, where both radicals R^3 and R^4 are a C_1-C_6-alkoxy group.

4. A compound as claimed in claim 1, where R^1 is $CONR^5R^6$ and R^5 and R^6 have the meanings indicated in claim 1.

5. A compound as claimed in claim 1, where R^1 is A-$CONR^5R^6$ and A, R^5 and R^6 have the meanings indicated in claim 1.

6. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-CO-R^9, in which R^9 is phenyl which is optionally substituted by halogen.

7. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-R^7, in which R^7 is pyridyl, in particular 3-pyridyl or 4-pyridyl, quinolyl or benzimidazolyl.

8. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-R^7, in which R^7 is an aromatic heterocyclic radical having 5 or 6 ring atoms and one or two heteroatoms, which independently of one another are selected from N, S and O, R^2 is $(CH_2)_oCOOH$ and o is 0, 1, 2, 3 or 4.

9. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-NR^{10}-CO-R^{11},in which R^{10} is H or C_1-C_6-alkyl and R^{11} is phenyl which is optionally substituted by 1, 2 or 3 substituents, which independently of one another are selected from halogen, CN, NO_2, CF_3, OC_1-C_6-alkyl and C_1-C_6-alkyl.

10. A compound as claimed in claim 9, where R^1 is C_1-, C_2- or C_3-alkylene-NR^{10}-CO-R^{11}, in which R^{10} is H or C_1-C_4-alkyl and R^{11} has the meanings indicated in claim 9.

11. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-NR^{10}-SO^2-R^{12}, in which R^{10} and R^{12} have the meanings indicated in claim 1.

12. A compound as claimed in claim 1, where R^{12} is naphthyl or phenyl which has 1, 2 or 3 substituents, which independently of one another are selected from halogen, NO_2, CF_3, OC_1-C_6-alkyl, C_1-C_6-alkyl, NH_2 and $NHCOC_1$-C_3-alkyl.

13. A compound as claimed in claim 11, where R^{12} is C_1-C_6-alkyl which is optionally substituted by one or two phenyl groups.

14. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-NR^{10}-CO-R^{11}, in which R^{10} is H or C_1-C_4-alkyl and R^{11} is C_1-C_6-alkyl which is optionally substituted by one or two phenyl groups, or is -CH=CH-phenyl.

15. A compound as claimed in claim 14, where R^1 is C_1-, C_2- or C_3-alkylene-NR^{10}-CO-R^{11}, in which R^{10} and R^{11} have the meanings indicated in claim 14.

16. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-NR^{10}-CO-R^{11}, in which R^{11} is naphthyl or an aromatic, heterocyclic radical having 5 ring atoms and 1 or 2 heteroatoms, which independently of one another are selected from N, O or S and R^{10} is H or C_1-C_6-alkyl.

17. A compound as claimed in claim 16, where R^{11} is a furyl or thienyl radical.

18. A compound as claimed in claim 1, where R^1 is C_2-alkylene-NR^{10}-CO-R^{11}, in which R^{11} is NR^5R^6 and R^5 and R^6 independently of one another are C_1-C_6-alkyl.

19. A compound as claimed in claim 1, where R^1 is C_1-C_6-alkylene-R^7, in which R^7 is 2-pyridyl or $COOR^8$ and R^8 is H or C_1-C_6-alkyl.

20. A pharmaceutical or cosmetic composition comprising at least one compound as claimed in claim 1, together with one or more pharmaceutically acceptable vehicles or additives.

21. A method for treating a disease that is connected with an immune system disorder, comprising administering a pharmaceutical composition comprising at least one compound as claimed in claim 1.

22. A method for treating inflammation, comprising topically applying a pharmaceutical composition comprising at least one compound as claimed in claim 1.

23. A procedure for the treatment of diseases which are connected with a disorder of the immune system, where an amount of a compound as claimed in claim 1 having an immunomodulating or cyclooxygenase-inhibiting action is administered to a person who needs treatment of this type.